Large Diameter Hose (LDH)
LAY FLAT Water Transfer

www.jgbhose.com
LDH Lay Flat Water Transfer Hose

Polyurethane (PU)

Eagle Water Transfer PU
200 PSI for 8” & 10”

- Designed for irrigation, pumping of sledge and liquid fertilizers, supply or drag hose
  - PU lining, Ribbed cover or smooth cover
  - High-tenacity synthetic jacket
  - Color: Black
  - Packaged in rolls, packed in cartons or loaded in pallets
- Extruded-Through-the-Weave technology without - delamination issue
- Temperature Range is -58°F to 176°F

<table>
<thead>
<tr>
<th>Nominal Size (in)</th>
<th>Working pressure (psi)</th>
<th>Burst pressure (psi)</th>
<th>OD (in)</th>
<th>Wall Thickness (in)</th>
<th>Tensile Strength (lbs)</th>
<th>Weight (lbs/ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>200</td>
<td>600</td>
<td>6 5/16</td>
<td>0.150</td>
<td>33 000</td>
<td>1.41</td>
</tr>
<tr>
<td>8</td>
<td>200</td>
<td>600</td>
<td>8 5/16</td>
<td>0.150</td>
<td>89 000</td>
<td>1.94</td>
</tr>
<tr>
<td>10</td>
<td>200</td>
<td>600</td>
<td>10 3/8</td>
<td>0.165</td>
<td>100 100</td>
<td>2.75</td>
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<tr>
<td>12</td>
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<td>12 7/16</td>
<td>0.165</td>
<td>134 000</td>
<td>3.33</td>
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<tr>
<td>14</td>
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<td>450</td>
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<td>178574</td>
<td>4.96</td>
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<tr>
<td>16</td>
<td>100</td>
<td>300</td>
<td>16 7/16</td>
<td>0.205</td>
<td>66140</td>
<td>5.09</td>
</tr>
</tbody>
</table>

JGB’s PU Hose is rated for all produce water applications.
Powder Coated field ends are available for produce water applications.
LDH Lay Flat Water Transfer Hose
Nitrile Rubber

Heavy Duty Nitrile Layflat Water Transfer Hose

- Used for irrigation, pumping of sludge or liquid fertilizers
  - Nitrile Rubber with a smooth or ribbed cover
  - High-tenacity synthetic reinforced jacket
  - Available in black
  - Rolled, packed in carton, or loaded in pallet
  - Three-ply or through-the-weave technology without delamination issue
  - Standard Length 660 ft

**Mfg. Technology:** Through-the-weave-technology without delamination issues
(See Oroflex 20 PVC/Nitrile Rubber Discharge Hose)

<table>
<thead>
<tr>
<th>ID</th>
<th>Wall Thickness</th>
<th>Maximum Length</th>
<th>Working Pressure</th>
<th>Bursting Pressure</th>
<th>Weight</th>
<th>Tensile Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>(in)</td>
<td>(mm)</td>
<td>(in)</td>
<td>(mm)</td>
<td>(ft)</td>
<td>(psi)</td>
<td>(psi)</td>
</tr>
<tr>
<td>8&quot;</td>
<td>204</td>
<td>0.170</td>
<td>4.2</td>
<td>660</td>
<td>200</td>
<td>600</td>
</tr>
<tr>
<td>10&quot;</td>
<td>254</td>
<td>0.170</td>
<td>4.2</td>
<td>660</td>
<td>200</td>
<td>600</td>
</tr>
<tr>
<td>12&quot;</td>
<td>306</td>
<td>0.175</td>
<td>4.2</td>
<td>660</td>
<td>150</td>
<td>450</td>
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</tbody>
</table>
Grooved Couplings for Vic Type Clamps

- Designed for use in agriculture, energy, industrial, etc.

- **Features:**
  - Full Bore design to minimize friction loss and increase flow.
  - Sexless design to facilitate assembly and connection.
  - Can be used with PVC/Nitrile or PU lay-flat hose.
  - Light-weight aluminum design.
  - Hard coat anodized for abrasion resistance.

Epoxy powder coated for produced water available

Standard Rigid Coupling as well as QuickVic available.

Large Diameter Shank Couplings (Shug-Grip Fittings)

- Designed for agricultural, energy and industrial applications.

- **Sizes:** 5", 6", 8" and 10"

- **Features:**
  - Full Bore design to minimize friction loss and increase flow
  - Sexless design to facilitate assembly and connection
  - Unique connection design allows hose to twist independently of each other, even under pressure
  - Gasket design improves sealing over Vic Clamp shank couplings
  - Can be used with PVC/Nitrile or PU hose
  - Light-weight aluminum design
  - Hard coat anodized for abrasion resistance

- **Also Available:**
  - Reducer/Increaser
  - Adapters to Cam & Groove
  - Available with Storz ends
  - Menders
  - End Plugs

Field Attachable Ends

Epoxy powder coated for produced water available
Eagle Water Transfer PU
Heavy Duty Polyurethane (PU) Layflat 16” ID Large Diameter Hose (LDH)

Application: Construction sites, waste water industry, agriculture and mining, transport of abrasive materials, flexible pipeline even in extreme terrain, irrigation and sludge disposal, for heavy duty service under toughest conditions. Perfectly prepared for hydraulic fraction in shales and oil fields.

Tube: PU
Cover: PU, Ribbed cover or smooth cover
Reinforcement: Polyester-Nylon textile
Temperature: -58°F to 176°F
Branding: EAGLE PU WATER TRANSFER
Color: Black standard, blue, green, or red upon request
Package: Rolled, packed on steel reel
Standard Length: 660 ft (200m)
Mfg. Technology: Through-the-weave-technology

<table>
<thead>
<tr>
<th>ID</th>
<th>Nom. OD</th>
<th>Max WP</th>
<th>Burst</th>
<th>Tolerance</th>
<th>Wall Thickness</th>
<th>Tensile Strength</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>in</td>
<td>in</td>
<td>psi/bar</td>
<td>psi/bar</td>
<td>in</td>
<td>in</td>
<td>lbs</td>
<td>lbs/ft</td>
</tr>
<tr>
<td>16</td>
<td>16 7/16</td>
<td>100/8</td>
<td>300/20</td>
<td>15.98 - 16.14</td>
<td>0.21</td>
<td>66140</td>
<td>5.09</td>
</tr>
</tbody>
</table>

Friction Loss of Eagle TPU Polyurethane Layflat Hose

<table>
<thead>
<tr>
<th>Flow Rate</th>
<th>Pressure Drop (bar/200m)</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>M3/h</td>
<td>Q(L/min)</td>
<td></td>
</tr>
<tr>
<td>480</td>
<td>8000</td>
<td>0.36</td>
</tr>
<tr>
<td>600</td>
<td>10000</td>
<td>0.56</td>
</tr>
<tr>
<td>900</td>
<td>15000</td>
<td>1.26</td>
</tr>
<tr>
<td>1200</td>
<td>20000</td>
<td>2.22</td>
</tr>
</tbody>
</table>

Friction Losses (theoretical value)

<table>
<thead>
<tr>
<th>Flow Rate</th>
<th>Pressure Drop (bar)</th>
<th>Calculated value</th>
</tr>
</thead>
<tbody>
<tr>
<td>2400</td>
<td>40000</td>
<td>8.24</td>
</tr>
<tr>
<td>Friction loss of coupling (bar)</td>
<td>0.43</td>
<td>0.20</td>
</tr>
<tr>
<td>Total friction losses (bar)</td>
<td>8.67</td>
<td>3.39</td>
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</table>

JGB's Eagle Water Transfer PU is coupled with forged fittings versus sand casted fittings, making them the strongest in the industry!
Our Capabilities:

The LDH, or Large Diameter Hose market, is one of the fastest growing markets in our industry, specifically in the energy exploration sector. With the addition of the Techmaflex PES-500 Large Bore Hose Assembly Machine, we've expanded our production capabilities to meet the demand of these customers. JGB Enterprises is a one stop shop for all of your custom LDH hose assemblies.

Eagle Water Transfer PU arriving at a JGB distribution center.

Racked and ready for shipment to our customer.

Crimped ends available on request.

Non Field Attachable (Factory Crimped)
Sizes: 2" through 12"
Visit www.jgbhose.com for more information.

For market specific catalogs visit www.jgbhose.com/hose-assemblies-fittings-by-market.